

The Shorelines

MONTHLY NEWSLETTER

JULY 2018



2018 SUMMER TAX BILLS



Summer Tax Bills were recently mailed out.

Payments will be accepted without penalty through September 14, 2018
(With 9/14/18 U.S. Post Office postmark) .

Delinquent taxes will be turned over to the county on March 1, 2019.

To pay online with your credit card, visit the city's website at www.gpshoresmi.gov.

Point & Pay is the secure payment process provider for the Village of Grosse Pointe Shores. There is a 3% convenience fee that will be displayed prior to acceptance of the payment. The convenience fee is charged by the payment process provider and not the Village of Grosse Pointe Shores.

PARK CONSTRUCTION UPDATE

Listed below is an updated project schedule on our park improvements. There have been a couple of delays in the contractor's progress, therefore the tennis court improvements are now expected to be substantially complete and open for play starting July 11th.

Project Schedule:

- ♦ June 28th, 29th, & July 2nd: Nagle Paving to make minor repairs to HMA wearing course and hand patch cutouts.
- ♦ July 3rd: Fence panels to be delivered to park, Motor City Fence to start installation.
- ♦ July 4th: No work
- ♦ July 5th & 6th: Motor City Fence to install tennis fence panels and gates.
- ♦ July 9th & 10th: Goddard Coatings to install tennis court surfacing.
- ♦ July 11th: Tennis Courts Open.
- ♦ After July 11th (Date TBD): Nagle Paving will place HMA wearing course on parking lot, site restoration.

CITY NEWS

JULY

3rd	Requests/Plans for 7/24 Planning Commission Meeting must be submitted by this date
4th	Administrative Offices, Court & DPW Closed. Rubbish collection & recycling delayed one day remainder of week.
5th	Finance Meeting - 10:00AM
6th	Water Bills Due
7th	Weather Siren Test - 1:00PM
9th	GPSIF Trustee Meeting - 7:00PM
9th	Last day to register for August 7th Primary Election
10th	Tree Board Meeting - 7:30AM
13th	Mayor Office Hours - 9:30AM to 10:30AM (Call 881-6565 for Appointment)
17th	Council Meeting - 7:00PM
18th	July Board of Review - 9:00AM (Corrections only)
24th	Planning Commission Meeting - 8:00AM



REMINDER

If you initiate a payment to us through your bank, please make sure you reference the **CORRECT** account information on your bank generated check to avoid payment being applied to an incorrect account!!

Examples:

Water Account #7065 - (address)
Boatwell Payment - Well #25
Tax Payment ID #001 01 0001 000

**WATCH YOUR MONTHLY
COUNCIL MEETINGS
ON OUR WEBSITE:
gpshoresmi.gov**

**Just click on
the Meeting Videos
hot button located in
the middle of the home page**

PUBLIC SAFETY

FIREWORKS SAFETY



Director of Public Safety John J. Schulte reminds residents to plan carefully when using fireworks so no one gets hurt. Always use common sense when storing, handling and remember these safety rules:

- ♦ Fireworks are for outdoor use only.
- ♦ Always have a responsible adult in charge, one that is not under the influence of alcohol, a controlled substance or a combination of both.
- ♦ Never give fireworks to anyone under the age of 18.
- ♦ Always read and follow directions on the label.
- ♦ Only light fireworks on a flat surface away from buildings, dry leaves and flammable materials.
- ♦ Always wear eye protection.
- ♦ Light only one firework at a time, and never relight a firework that didn't work the first time.
- ♦ Properly dispose of used and unused fireworks according to the directions on the package.

Fireworks can only be ignited the day before, the day of, and the day after one of the 12 recognized national holidays between the hours of 8 a.m. and midnight, except for New Year's eve and day when they are allowed until 1 a.m. Refer to Michigan Fireworks Safety Act # 256 MCL 28.451 et seq., and the State of Michigan website www.michigan.gov/LARA, under the Department of Licensing and Regulatory Affairs for additional definitions, restrictions and provisions on use of fireworks.

Nixle Alerts

The Nixle program is your link to local public safety alerts and community announcements delivered by your choice of text message or email. Subscribe to Nixle free of charge by logging on to www.Nixle.com. Nixle is a secure communications service. There is no SPAM or advertising associated with Nixle messages. We urge all residents to take advantage of this informational service.

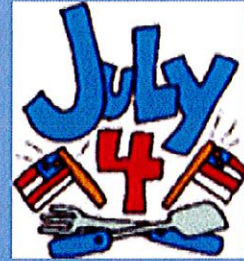
PUBLIC WORKS

COLLECTION OF YARD CLIPPINGS AND GARDEN RUBBISH



**This is a seasonal service which ends
December 7th.**

**Yard clippings and garden rubbish must
be placed at the curb in appropriate
paper bags for collection on your
scheduled day. Tree limbs and branches
(brush) must be placed at the curb in
lengths of four feet or shorter and tied in
bundles weighing less than 50 pounds.**



DPW CLOSED

**RUBBISH COLLECTION AND
RECYCLING DELAYED ONE DAY
REMAINDER OF THE WEEK**

RECYCLABLES

**In addition to metal, glass and plastic
containers, GFL Sanitation also picks
up household batteries (in plastic
bags), and magazines (in bundles) sep-
arate from newspapers placed in your
recycling bins.**

**Large recycle bin containers are availa-
ble for purchase at the GPS Administra-
tive Office for \$60 and will be delivered
to your home by our DPW Department.**

GFL Sanitation Services

844-464-3587

gflscustomerservice@gflenv.com



2018 BELLE MEADE ROAD REHABILITATION PROGRAM

**Bids for this project were
opened Tuesday, June 26th
and are currently under
review.**

**We will keep you posted on
the progression of this
project as it develops.**



Helpful tips for keeping the watershed clean:

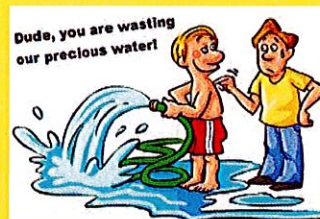
- ◇ Never dispose of paint or paint-related products into the gutters or storm drains. This is illegal dumping.
- ◇ Do not blow, sweep, hose or rake leaves or other yard trimmings into the street, or storm drain.
- ◇ For one time use items, only buy what you need, so storage or waste water will not be a problem.
- ◇ Oil-based paints should be cleaned with paint thinner. Paint thinner can be filtered and reused. Used thinner can be set aside in a closed jar to settle out paint particles and can be stored in a well-ventilated location.
- ◇ Choose earth friendly landscaping. Use non-toxic products for your garden and lawn whenever possible.
- ◇ Use pesticides sparingly.
- ◇ Clean up after your pet.
- ◇ Practice good car care.
- ◇ Conserve water.

Outdoor Watering

In order for the City to keep water rates down, we are requesting residents to limit their outdoor watering to non-peak hours. Please water your lawns between 11:00pm and 4:00am. (Please refrain from watering between 5:00am - 9:00am).

Please be advised all municipal grounds are watered from lake access so residents are advised not to drink water from the sprinkling system.

Thank you for your cooperation.



Lake St. Clair Direct Drainage Subwatershed
<http://www.crrc.org/watershed/subwatersheds/lakestclair/>

Wayne County 24 Hour Hotline
http://www.waynecounty.com/doe_wqm_res_iddep_investigation.htm

Wayne County HHW Program
http://www.waynecounty.com/doe_1rm_prog_swplanning_hhwp.htm

RV Waste Dumps in Michigan
<http://www.rvdumps.com/dumpstations/michigan>

PARKS & RECREATION

PARK PARTY RESERVATIONS

can be made at City Hall during normal business hours. The pavilion is available for reservations accompanied by a \$25 usage fee and a \$150 refundable deposit due at the time of reservation. The deposit may be retained for cleaning charges unless the pavilion is returned to its original condition.



Monday - Friday (Weekdays) Maximum 100 persons per event
Saturday/Sunday (Weekends) Maximum of 75 persons per event

Guest list required for reservation of 10 or more persons

CONCESSION STAND HOURS



Through July 29th:

Monday thru Friday 10AM to 6PM

Saturday: 11AM to 7PM

Sunday: 11AM to 6PM

July 30th through Labor Day:

Monday thru Thursday 11AM to 2PM

Friday: 11AM to 6PM

Saturday: 11AM to 7PM

Sunday: 11AM to 6PM

Sept. 9 - Car Show: Noon to 4PM

RECREATIONAL EQUIPMENT

The park has two corn hole games; pickleball & shuffle board equipment; basketballs, volleyballs and other equipment available at the pool office for use while visiting the park.

Contact the pool office at (313)884-2305 to make arrangements.



shutterstock - 246276289



OSIUS PARK CONTACTS

POOL MANAGER: KAY DRAKE

SWIM COACH: JORDAN CLARK

HARBOR MASTER: TOM KROLCZYK

MAINTENANCE: BOB HECKMAN

POOL OFFICE: 884-2305
GATE HOUSE: 884-7018
HARBOR MASTER: 881-6565

PARK HOURS:
MEMORIAL DAY TO LABOR DAY: 6:00AM TO 12 MIDNIGHT
LABOR DAY TO NOVEMBER 15TH: 7:00AM TO 11:00PM
NOVEMBER 15TH TO APRIL 15TH: 7:00AM TO 7:00PM



STORIES AT THE PARK

GP PUBLIC LIBRARY at Your
Parks Program provided by the
Youth Services Librarians
Story Time at the Park will be at the Osius
Park Pavilion on
TUESDAY, JULY 17TH
from 9am to 2pm



JULY 8TH

**COMMUNITY
SPLASH PARTY
1:00 TO 4:00 PM**

JULY 9TH

SWIM LESSONS SESSION 2 BEGIN

FISHING DERBY



**JULY 21st
8:00 AM to 10:00 AM**

**@
GROSSE POINTE SHORES
MUNICIPAL PARK PIER**

JULY 12TH

**COMMUNITY
MOVIE NIGHT
@ GPS
PARK**



JULY SWIM MEET DATES & EVENTS

- ♦ **July 3rd** - Home Swim Meet
5:30 PM SCS @ GPS
- ♦ **July 11th** - Swim Meet
5:30 PM GPS @ GPP
- ♦ **July 14th** - Relay Swim Meet
9:00AM @ GPF
- ♦ **July 18th** - Home Swim Meet
5:30PM GPF @ GPS
Camp Out & Movie Night
- ♦ **July 24th** - Prelims @ GPW
8:00 AM Hosted by SCS
- ♦ **July 25th** - Swim Finals @ GPW
5:30 PM Hosted by SCS
- ♦ **July 26th** - Swim Team Banquet
6:00 PM



2018 SUMMER CLASS & LESSON SCHEDULE

TAI CHI

Instructor Jennifer Silverston
Registration @ Park Office begins 6/11

Residents \$100 for 8 weeks or
\$60 for 4 weeks

Non-residents \$110 for 8 weeks or
\$65 for 4 weeks

Wednesday Mornings: 10am to 11am
Wednesday Evenings: 6:15pm to 7:15pm

Dates: 6/20; 6/27; 7/11; 7/25;
8/1; 8/8; 8/15; 8/22

Potential add on classes: 9/19; 9/26; 10/3;
(\$60) 10/10; 10/17

Rain Dates: 8/29 & 9/12

SWIM LESSONS

2 Sessions

Registration 6/11 4pm @ GPS Park

Classes begin 6/18
Residents \$40 for 2 week session

Session I: 6/18 - 6/29 M-F

Session II: 7/9 - 7/20 M-F

Level 1 & 2	10:30am to 11am & 11:15am to 11:45am
Level 3	10:15am to 11am & 11:am to 11:45am
Level 4	12:00pm to 12:45pm
Level 5 & 6	12:00pm to 12:45pm

TENNIS LESSONS

10 One Week Sessions
Registration 6/11 4pm @ GPS Park

Classes begin 6/18
Residents \$30 per week
(must pay before the start of lesson)

10 & under 10:00am M-F
11 & up 11:00am M-F

MORNING SWIM

Registration 6/11 4pm
@ GPS Park

6/18 to 8/24
5:30am to 8:00am M-F

Residents \$50
Non-residents \$70

AQUA JOG

Instructor Carrie Moore

7/11 to 8/22
Every Wednesday
7:00AM TO 8:00AM

Residents \$35
Non-residents \$40

WATER AEROBICS

(Deep Water Aerobics or depth
comfortable to you. Noodles available,
Aqua Jogger recommended)

Instructor Carrie Moore
Registration 6/11 4pm @ GPS Park

Classes begin 6/19
Tuesday Evenings: 6:30-7:30pm
Thursday Evenings: 6:30-7:30pm
June 19 to August 23
(No classes week of July 4th)

Residents \$70 for 9 weeks
Non-residents \$75 for 9 weeks

GPS TELEPHONE DIRECTORY

City Administration: 881-6565
Dept. of Public Safety: 881-5500
Court Office: 881-5503
Dept. of Public Works: 886-0020
Municipal Park Gate: 884-7018
Pool Office: 884-2305

EMERGENCIES ONLY: 9-1-1
TDD Unit 343-0666
(for the hearing impaired)



Ted J. Kedzierski, Mayor
tkedzierski@gpshoresmi.gov

Bruce Bisballe, Mayor Pro tem
bbisballe@gpshoresmi.gov

Robert Barrette, Council Member
rbarrette@gpshoresmi.gov

Tina Ellis, Council Member
tellis@gpshoresmi.gov

Doug Kucyk, Council Member
dkucyk@gpshoresmi.gov

Matthew Seely, Council Member
mseely@gpshoresmi.gov

Bruce Nichols, City Clerk

Mark Wollenweber, City Manager
mwollenweber@gpshoresmi.gov

Rhonda Ricketts, Finance Officer & Treasurer
finance@gpshoresmi.gov

John Schulte, Public Safety Director
jschulte@gpshoresmi.gov

Brett Smith, Public Works Director
bsmith@gpshoresmi.gov

Harold Michaux, Grounds Supervisor

Kay Drake, Pool Manager
kdrake@gpshoresmi.gov

Brian Renaud
City Attorney

Pete Bierzynski
Assessor



GPS ADMINISTRATIVE OFFICE HOURS:
Mon–Fri 8:30am to 5:00pm

DPW: Mon–Fri 7:30am to 4:00pm

PUBLIC SAFETY: Open 24 Hours

Please remember to visit the Grosse Pointe Shores website at gpshoresmi.gov. It offers a variety of information useful to residents.





Grosse Pointe Shores Splash Party

Sunday, July 8th

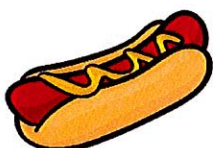
1pm-4pm

FEATURING-----

Disc Jockey



Hot Dogs



Lemonade



Ice Cream



EVENTS-----

Bounce House



Miniature Golf



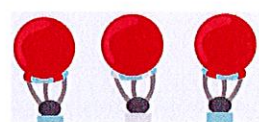
Obstacle Course



Corn Hole Toss



Wipeout



KIDS' GAMES (begin @2pm)-----

Bubbles



Sidewalk Chalk



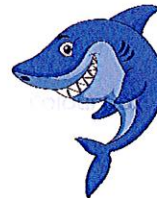
Duck Pond



Water Brigade



Squash the Sharks



POOL GAMES (begin @2pm)-----

Fish Frenzy



Inner Tube Races



Coin Toss



Fishing Derby

Grosse Pointe Shores Park Pier

Saturday, July 21st

8-10 a.m.



Be sure to bring your fishing pole and bait of choice!!!





Annual Drinking Water Quality Report

This report covers the drinking water quality for the Village of Grosse Pointe Shores, for the calendar year 2017 {Jan. 1 - Dec. 31}. This information is a snapshot of the quality of the water that we provided to you in 2017. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards.

About our system

The Village of Grosse Pointe Shores is one of 126 communities that receive its water from the Detroit Water and Sewerage Department, which provides drinking water to approximately 4.2 million people. The system uses water drawn from two intakes in the Detroit River: one to the north near the mouth of Lake St. Clair and one to the south near Lake Erie. The water is directed to (4) large water treatment plants for processing. A fifth water treatment plant located in St. Clair County uses surface water from Lake Huron. The four plants that treat water drawn from the Detroit River service Detroit area customers.

Detroit River Intakes

Your source water comes from the Detroit River, situated within the Lake St. Clair, Clinton River, Detroit River, Rouge River, Ecorse River, in the U.S. and parts of the Thames River, Little River, Turkey Creek and Sydenham watersheds in Canada. The Michigan Department of Environmental Quality in partnership with the U.S. Geological Survey, the Detroit Water and Sewerage Department, and the Michigan Public Health Institute performed a source water assessment in 2004 to determine the susceptibility of potential contamination. The susceptibility rating is on a seven-tiered scale from "very low" to "very high" based primarily on geologic sensitivity, water chemistry, and contaminant sources. The susceptibility of our Detroit River source water intakes were determined to be highly susceptible to potential contamination. However, all four Detroit water treatment plants that use source water from Detroit River have historically provided satisfactory treatment of this source water to meet drinking water standards.

GLWA has initiated source-water protection activities that include chemical containment, spill response, and a mercury reduction program. GLWA participates in a National Pollutant Discharge Elimination System permit discharge program and has an emergency response management plan. In 2015, GLWA received a grant from The Michigan Department of Environmental Quality to develop a source water protection program for the Detroit River intakes. The programs includes seven elements that include the following: roles and duties of government units and water supply agencies, delineation of a source water protection area, identification of potential of source water protection area, management approaches for protection, contingency plans, siting of new sources and public participation and education. If you would like to know more information about the Source Water Assessment report please, contact your water department (313)886-0020.

Mandatory language regarding contaminants reasonably expected to be found in drinking water.

“Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency’s Safe Drinking Water Hotline at (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

Organic chemical contaminants, including synthetic and volatile organics, which are by-products of industrial processes and petroleum production, and can, also come from gas stations, urban storm water runoff and septic systems.

Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.”

Warning about the vulnerability of some populations to contaminants in drinking water.

“Some people may be more vulnerable to contaminants in drinking water than is the general population. Immune-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).”

Required 2008 Cryptosporidium language for one or more of the following water plants; Water Works Park’ Northeast, Springwells, and Southwest.

Cryptosporidium a microbial pathogen found in surface water throughout the U.S. Although filtration removes Cryptosporidium, the most commonly used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of these organisms in our source water. Cryptosporidium was detected once, during a twelve-month period at our Detroit River intake plants. Current test methods do not allow us to determine if the organisms are dead or if they are capable of

causing disease. Ingestion of *Cryptosporidium* may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, compromised-compromised people, infants and small children, and the elderly are at risk of developing life-threatening illness. We encourage immune-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. *Cryptosporidium* must be ingested to cause disease, and it may be spread through means other than drinking water.

New LCR CCR requirements covering the year 2009 water supplies must include information about lead, even if lead is not detected.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Grosse Pointe Shores is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).

We are pleased to provide you with this information to keep you fully informed about your water. We will be updating this report annually, and will also keep you informed of any water problems that may occur throughout the year, as they may happen.

If you have any questions, please call the Village of Grosse Pointe Shores Public Works at 313-886-0020. The Grosse Pointe Shores Council meets the 3rd Tuesday of each month at 7:00pm. At the Village Municipal building located at 795 Lakeshore Drive.

Northeast Water Treatment Plant 2017 Regulated Detected Contaminants Tables

2017 Inorganic Chemicals – Monitoring at the Plant Finished Water Tap

Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Allowed Level MCL	Highest Level Detected	Range of Detection	Violation yes/no	Major Sources in Drinking Water
Fluoride	5-16-2017	ppm	4	4	0.66	n/a	no	Erosion of natural deposits; Water additive, which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate	5-16-2017	ppm	10	10	0.44	n/a	no	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Barium	5-16-2017	ppm	2	2	0.01	n/a	no	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits

2017 Disinfection By-Products – Monitoring in Distribution System, Stage 2 Disinfection By-Products

Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Allowed Level MCL	Highest LRAA	Range of Detection	Violation yes/no	Major Sources in Drinking Water
Total Trihalomethanes (TTHM)	2017	ppb	n/a	80	.0481	.0481	NO	By-product of drinking water chlorination
Haloacetic Acids (HAA5)	2017	ppb	n/a	60	.018	.018	NO	By-product of drinking water disinfection

2017 Disinfectant Residuals – Monitoring in Distribution System by Treatment Plant

Regulated Contaminant	Test Date	Unit	Health Goal MRDLG	Allowed Level MRDL	Highest RAA	Quarterly Range of Detection	Violation yes/no	Major Sources in Drinking Water
Total Chlorine Residual	Jan-Dec 2017	ppm	4	4	0.78	0.66-0.82	no	Water additive used to control microbes

2017 Turbidity – Monitored every 4 hours at Plant Finished Water

Highest Single Measurement Cannot exceed 1 NTU	Lowest Monthly % of Samples Meeting Turbidity Limit of 0.3 NTU (minimum 95%)	Violation yes/no	Major Sources in Drinking Water
0.18 NTU	100 %	no	Soil Runoff

Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system.

2017 Lead and Copper Monitoring at Customers' Tap

Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Action Level AL	90 th Percentile Value*	Number of Samples over AL	Violation yes/no	Major Sources in Drinking Water
Lead	2017	ppb	0	15	3.19 ppb	0	NO	Corrosion of household plumbing system; Erosion of natural deposits.
Copper	2017	ppm	1.3	1.3	199.35 ppb	0	NO	Corrosion of household plumbing system; Erosion of natural deposits; Leaching from wood preservatives.

*The 90th percentile value means 90 percent of the homes tested have lead and copper levels below the given 90th percentile value. If the 90th percentile value is above the AL additional requirements must be met.

Regulated Contaminant	Treatment Technique 2017	Typical Source of Contaminant
Total Organic Carbon (ppm)	The Total Organic Carbon (TOC) removal ratio is calculated as the ratio between the actual TOC removal and the TOC removal requirements. The TOC was measured each quarter and because the level was low, there is no TOC removal requirement	Erosion of natural deposits

Special Monitoring 2017				
Contaminant	MCLG	MCL	Level Detected 2017	Source of Contamination
Sodium (ppm)	n/a	n/a	4.85	Erosion of natural deposits

Great Lakes Water Authority voluntarily monitors for the protozoans *Cryptosporidium* and *Giardia*. The December 2017 untreated water sample collected at the Belle Isle intake contained 1 *Giardia* cyst. All other samples collected in the year 2017 were absent for the presence of *Cryptosporidium* and *Giardia* in the untreated water. Systems using surface water Like GLWA must provide treatment so that 99.9 percent of *Giardia lamblia* is removed or inactivated.

Key to the Detected Contaminants Table

Symbol	Abbreviation	Definition/Explanation
>	Greater than	
°C	Celsius	A scale of temperature in which water freezes at 0° and boils at 100° under standard conditions.
AL	Action Level	The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements which a water system must follow.
HAA5	Haloacetic Acids	HAA5 is the total of bromoacetic, chloroacetic, dibromoacetic, dichloroacetic, and trichloroacetic acids. Compliance is based on the total.
LRAA	Locational Running Annual Average	The average of analytical results for samples at a particular monitoring location during the previous four quarters.
MCL	Maximum Contaminant Level	The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
MCLG	Maximum Contaminant Level Goal	The level of contaminant in drinking water below which there is no known or expected risk to health.
MRDL	Maximum Residual Disinfectant Level	The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
MRDLG	Maximum Residual Disinfectant Level Goal	The level of a drinking water disinfectant below which there is no known or expected risk to health. MRLDG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.
n/a	not applicable	
ND	Not Detected	
NTU	Nephelometric Turbidity Units	Measures the cloudiness of water.
pCi/L	Picocuries Per Liter	A measure of radioactivity
ppb	Parts Per Billion (one in one billion)	The ppb is equivalent to micrograms per liter. A microgram = 1/1000 milligram.
ppm	Parts Per Million (one in one million)	The ppm is equivalent to milligrams per liter. A milligram = 1/1000 gram.
RAA	Running Annual Average	The average of analytical results for all samples during the previous four quarters.
TT	Treatment Technique	A required process intended to reduce the level of a contaminant in drinking water.
TTHM	Total Trihalomethanes	Total Trihalomethanes is the sum of chloroform, bromodichloromethane, dibromochloromethane and bromoform. Compliance is based on the total.
µmhos	Micromhos	Measure of electrical conductance of water